

Sheet 1 of 1

Form PTO—1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Docket Number	Application Number
	751	08/464,034
	Applicant	
	Gilbert Hyatt	
	Filing Date	Group Art Unit
	June 5, 1995	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	4,345,312	08/82	Yasuye et al	382	151

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	589,168	08/1897	Edison	352	188
	3,553,360	01/71	Land et al	348	469
	3,651,471	03/72	Haselwood et al	710	19
	3,674,921	07/72	Goldsmith	178	5.4R
	3,781,850	12/73	Gicca et al	345	440
	3,852,750	12/74	Klein	343	105R
	3,889,067	06/75	Reed et al	379	250
	3,953,822	04/76	Vilkomerson	367	11
	4,109,276	08/78	Hopkins Jr. et al	348	498
	4,161,753	07/17/79	Bailey et al		
	4,162,775	07/31/79	Voles		
	4,189,748	02/80	Reis	375	240.02
	4,200,861	04/29/80	Hubach et al		
	4,202,011	05/80	Koga	348	411.1
	4,259,744	03/81	Junod et al	455	103
	4,276,565	06/81	Dalton et al	358	140
	4,375,650	03/83	Tiemann	375	240.2
	4,383,272	05/83	Netravali et al	358	136
	4,403,246	09/83	Thornberry	348	628
	4,449,205	05/15/84	Hoffman		
	4,539,652	09/85	Rubin	710	100
	4,546,383	10/85	Abramatic et al	379	93.08
	4,590,569	05/86	Rogoff et al	701	219
	4,616,327	10/86	Rosewarne et al	345	636
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)					
Kornstein, H. Dynamic RAM Refresh in 8080 systems, New Electronics, July 1976, vol. 9, no. 15, pg 15.					

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	3,643,031	02/1972	Sasaki et al	079	15
	3,656,124	04/11/72	McGee	700	275
	3,665,280	05/23/72	Payne et al	318	572
	3,781,477	12/1973	Johnannesson	179	2
	3,974,337	08/1976	Tatsuzawa	179	2
	4,076,966	02/1978	Bovo et al	179	18
	4,161,730	07/1979	Anderson	342	52
	4,232,313	01/1980	Fleishman	342	36
	4,256,926	03/1981	Pitroda et al	179	18
	4,301,503	11/1981	Frederiksen	463	33
	4,330,886	05/1982	Fukuda et al	370	62
	4,445,118	04/1984	Taylor et al	342	357.09
	4,464,652	08/07/84	Lapson et al		
	4,517,596	05/1985	Suzuki	375	240.05
	4,563,703	01/1986	Taylor et al	348	580
	4,567,591	01/1986	Gray et al	370	109
	4,641,255	02/1987	Hohmann	345	628
	4,694,472	09/1987	Torok et al	375	354
	4,730,692	03/1988	Fair et al	181	114
	4,835,532	05/1989	Fant	340	728
OTHER DOCUMENTS <small>(including Author, Title, Date, Pertinent Pages, Etc.)</small>					
Atley, "LSI poses dilemma", 1970, pages 44-52, Electronic Design 3.					
Intel, "4004 SINGLE CHIP 4-BIT P-CHANNEL MICROPROCESSOR", undated. Pages 8-15 to 8-23, Intel.					
Vadasz, "Desk Calculator Chips for ETI", 04/22/1970, pages 1-9, Intel.					
Noyce et al. "Provisional Agreement", 04/28/1969, pages 1-3, Intel.					
Kashiwazaki, "Invoice Letter of Sale", June 20, 1970, pages 1-3.					

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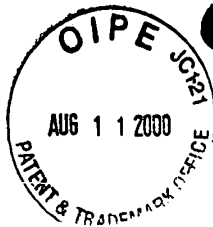
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U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	2,811,579	10/29/57	Loughren	348	760
	3,099,781	07/1963	Herchenroeder	318	571
	3,121,861	06/1960	Alexander	345	207
	3,178,148	04/65	McKenna	395	555
	3,252,148	05/66	Mitchell	327	144
	3,465,298	09/1969	La Duke	364	474.01
	3,532,813	10/06/70	Lechner		
	3,573,852	04/71	Watson	395	677
	3,576,540	04/1971	Fair	364	138
	3,591,781	07/1971	Brenza	364	474.28
	3,599,180	08/71	Rubinstein	365	150
	3,612,976	10/1971	Tripp	364	183
	3,617,718	11/71	Dummermuth	318	571
	3,629,837	12/1971	Fraunfelder et al	455	38.4
	3,633,013	01/1972	Dummermuth	318	571
	3,641,331	02/72	Kreidermacher	708	624
	3,649,755	03/14/72	Newman	348	602
	3,653,161	04/1972	Clark	318	569
	3,676,585	07/11/72	Kaneko et al	178	6.8
	3,699,317	10/1972	Middleditch	364	474.29
	3,701,019	10/1972	Jackson	340	518
	3,702,462	11/72	England	395	821
	3,705,310	12/72	Wild	349	24
	3,732,366	05/08/73	Bolie	340	146.3
	3,742,483	06/73	Ogle	345	69
	3,776,615	12/73	Tsakamoto et al	345	87
	3,781,865	12/25/73	Yamazaki		
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	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
9	3,786,307	01/15/74	Robinson	315	169TV
	3,883,728	05/13/75	Schwartz et al	235	152
	3,895,861	07/22/75	Herndon	352	69
	3,899,662	08/12/75	Kreeger et al	235	151
	3,899,786	08/75	Greubel et al	345	32
	3,915,548	10/75	Opittek et al	345	87
	3,952,296	04/1976	Bates	345	197
	3,958,220	02/1986	Marshall		
	3,975,661	08/17/76	Kanatani	348	78
	4,005,928	02/77	Kmetz et al	345	195
	4,006,298	02/01/77	Fowler et al	345	147
	4,087,792	05/02/78	Asars	345	147
	4,125,873	11/78	Chesarek		
	4,160,191	07/03/79	Hausfeld	315	169.4
	4,179,586	12/1979	Mathews et al	380	33
	4,188,580	02/1980	Nicolai et al	380	254
	4,188,618	12/1971	Weisbart	340	870.16
	4,198,630	04/15/80	Sarinken et al		
	4,205,389	05/80	Heartz	345	524
	4,245,248	01/13/81	Netravali et al	358	136
	4,266,253	03/05/81	Matherat	345	27
	4,287,529	09/81	Tatami et al	348	616
	4,317,169	02/82	Panepinto, Jr. et al	711	106
	4,357,624	11/1982	Greenberg	348	578
	4,386,367	05/31/83	Peterson et al	348	446
	4,427,978	01/24/84	Williams		
	4,430,673	02/1984	Salomon et al		
	4,494,140	01/1985	Michael	348	415

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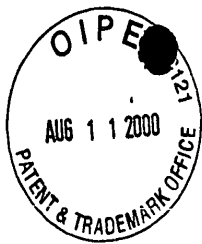
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U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	4,496,972	01/1985	Lippmann et al		
	4,533,942	8/1985	Gall et al	358	78
	4,533,950	08/1985	Harshbarger		
	4,543,572	09/24/85	Tanaka et al	340	995
	4,553,222	11/1985	Kurland et al	705	15
	4,581,721	04/86	Gunawardana	365	230.09
	4,589,022	05/13/86	Prince et al	348	602
	4,591,848	05/27/86	Morozumi et al		
	4,591,902	05/86	Masubuchi	345	147
	4,600,919	07/1986	Stern	345	473
	4,614,941	09/1986	Jarvis		
	4,628,158	12/04/86	Rubin	379	10
	4,651,287	3/1987	Tsao	364	519
	4,654,877	03/87	Shimoni, et al.		
	4,677,576	06/30/87	Berlin, Jr. et al	364	522
	4,679,082	07/1987	Shibasaki	348	466
	4,716,405	12/29/87	Yamaguchi	340	723
	4,723,171	02/02/88	Kuijk et al		
	4,766,430	08/23/88	Gillette et al	345	89
	4,771,279	09/88	Hannah	345	147
	4,791,417	12/13/88	Bobak		
	4,803,551	02/1989	Park	348	466
	4,820,222	04/1989	Holmberg et al	345	93
	4,827,085	05/02/89	Yaniv et al	345	164
	4,829,372	05/1989	McCalley et al	348	7
	4,839,743	06/1989	Best et al	386	31
	4,897,724	01/1990	Veldhuis		
	4,930,049	05/29/90	Davenport et al		

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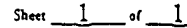
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	4,965,559	10/23/90	Dye	340	717
	4,965,825	10/1990	Harvey et al	380	9
	5,081,523	01/1992	Frazier	348	178
	5,122,791	06/16/92	Gibbons et al	345	102
	5,124,695	08/23/92	Green		
	5,185,602	02/09/93	Bassetti, Jr. et al	345	89
	5,196,839	03/23/93	Johary et al	340	793
	5,233,340	08/03/93	Yamaguchi et al	345	148
	5,262,698	11/16/93	Dunham	315	169.1
	5,867,166	02/02/99	Myhrvold et al	345	419
<p style="text-align: center;">OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</p> <p>Foley et al., Computer Graphics: Principles & Practice, p. 4-7, 201-203, 230-231, 350-351, 364-371, 864-871 (1992)</p> <p>Brickman, N.F., <u>LARGE SCALE INTEGRATION</u>, IBM Tech. Discl. Bul. pp. 1927-1928, Vol. 13 No. 7, Dec. 1970</p> <p>Brickman, N.F., <u>REDUNDANT MEMORY CELL AND DECODER</u>, IBM Tech. Discl. Bul., Vol. 13 No. 7, Dec. 1970</p> <p>Meagher, Donald: "Efficient Synthetic Image Generation of Arbitrary 3-D Objects", 1982 IEEE, pp. 473-478</p> <p>Pertinent Concepts in Computer Graphics edited by M. Faïman and J. Nievergelt (03/1969)</p>					

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NAME

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4,533,942

8/1985

Gall et al

358

78

4,651,287

3/1987

Tsao

364

519

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	5,081,523	01/1992	Frazier	348	178
	5,867,166	02/02/99	Myhrvold et al	345	419

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Foley et al., Computer Graphics: Principles & Practice, p. 4-7, 201-203, 230-231, 350-351, 364-371, 864-871 (1992)

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	4,198,630	04/15/80	Sarinken et al		
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Bobak

4,930,049

05/29/90

Davenport et al

5,124,695

08/23/92

Green


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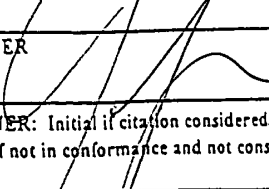
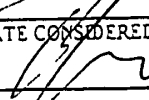
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	Brickman, N.F., <u>REDUNDANT MEMORY CELL AND DECODER</u> , IBM Tech. Discl. Bul., Vol. 13 No. 7, Dec. 1970				

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9	3,629,837	12/1971	Fraunfelder et al	455	38.4
	3,701,019	10/1972	Jackson	340	518
	3,899,662	08/12/75	Kreeger et al	235	151
	3,952,296	04/1976	Bates	345	197
	3,958,220	02/1986	Marshall		
	4,179,586	12/1979	Mathews et al	380	33
	4,188,580	02/1980	Nicolai et al	380	254
	4,188,618	12/1971	Weisbart	340	870.16
	4,494,140	01/1985	Michael	348	415
	4,496,972	01/1985	Lippmann et al		
	4,543,572	09/24/85	Tanaka et al	340	995
	4,600,919	07/1986	Stern	345	473
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	Pertinent Concepts in Computer Graphics edited by M. Fairman and J. Nievergelt (03/1969)				
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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Sheet <u>1</u> Docket Number <div style="text-align: center; font-weight: bold;">751</div>	Application Number <div style="text-align: center; font-weight: bold;">08/464,038</div>
	Applicant <div style="text-align: center; font-weight: bold;">Gilbert Hyatt</div>	
	Filing Date <div style="text-align: center; font-weight: bold;">June 5, 1995</div>	Group Art Unit

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
C	2,624,876	01/06/53	Dicke		
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	2,760,164	08/21/56	Graham et al		
	2,808,577	10/01/57	Crawford et al		
	2,874,795	02/24/59	Doty et al		
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	3,018,962	01/30/62	Jones et al		
	3,024,994	03/13/62	Buland et al		
	3,065,453	11/20/62	Doty		
	3,325,787	06/67	Angell et al	382	155
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	3,555,175	01/71	Griepentrog		
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	3,573,819	04/71	Mason et al	342	46
	3,613,082	10/71	Bouchard	382	159
	3,614,035	10/71	Buynak et al	250	549
	3,630,079	12/71	Hughes et al	73	178
	3,653,001	03/72	Ninke	345	501
	3,673,396	06/72	Seki		
	3,702,477	11/72	Brown	342	451
	3,736,564	05/73	Watkins	340	172.5
	3,747,087	07/73	Harrison, III et al	340	324
	3,781,795	12/25/73	Zegers	340	146.1
	3,783,253	01/74	Anderson et al		
	3,784,969	01/74	Wilckens et al		
	3,810,174	05/07/74	Heard et al	343	5

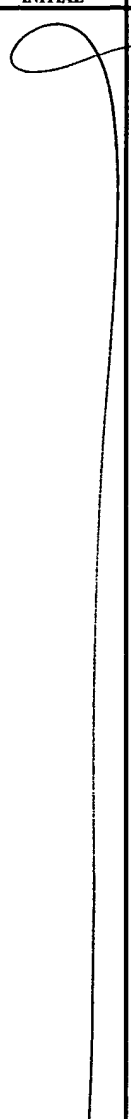
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	Applicant Gilbert Hyatt	
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EXAMINER INITIALS	U.S. PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
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	3,914,761	10/75	Murase et al	340	366
	3,940,763	02/76	Paradise	342	49
	3,946,381	03/76	Johnson et al	365	116
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	4,124,871	11/78	Morrin, II	358	287
	4,162,541	07/79	Hartke	365	189.8
	4,179,693	12/79	Evans et al	342	64
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	4,196,448	04/01/80	Whitehouse et al	358	153
	4,204,226	05/20/80	Mistretta et al	378	98.12
	4,208,719	06/80	Lotz et al	364	515
	4,215,366	07/80	Davidson	358	124
	4,245,244	01/13/81	Lijewski et al	345	161
	4,254,400	03/81	Yoda et al	382	194
	4,276,029	06/81	Gilson et al		
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	4,290,064	09/15/81	Traster	340	723
	4,293,920	10/81	Merola	364	725
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	4,323,880	04/82	Lucas	340	146.3AC
	4,329,708	05/82	Yamamoto et al.		
	4,343,037	08/82	Bolton	364	521
	4,345,272	08/82	Shirota	348	617
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	4,359,733	11/16/82	O'Neill	343	6.5
	4,387,370	06/83	Katagi	345	12
	4,393,380	07/83	Hosokawa et al	345	90
	4,394,060	07/83	Verber et al	385	7
	4,395,729	07/93	Lewis, Jr.	348	508
	4,402,049	08/30/83	Gray	364	447
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	4,420,819	12/83	Price, et al	710	52
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	4,484,230	11/84	Pugsley	358	284
	4,488,174	12/84	Mitchell et al	348	415
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	4,532,650	07/85	Wihl et al	382	144
	4,553,206	11/85	Smutek, et al	707	101
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	4,604,562	08/05/86	Phillips et al	318	640
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C	4,688,197	08/87	Novak et al	36	230
	4,745,460	03/88	Fukinuki	358	12
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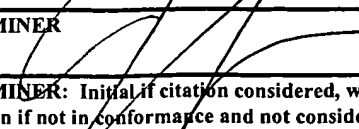

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Disclosure document No. 131747, "TECHNOLOGICAL INNOVATIONS", Gilbert P. Hyatt, inventor; dated October 17, 1984

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Form PTO—1449

Sheet 1 of 1**INFORMATION DISCLOSURE CITATION
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	2,688,124	08/31/54	Doty et al	
	2,760,164	08/21/56	Graham et al	
	2,808,577	10/01/57	Crawford et al	
	2,874,795	02/24/59	Doty et al	
	2,910,134	10/27/59	Crawford et al	
	3,011,582	12/05/61	Peterson	
	3,018,962	01/30/62	Jones et al	
	3,024,994	03/13/62	Buland et al	
	3,065,453	11/20/62	Doty	
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	3,673,396	06/72	Seki		
	3,783,253	01/74	Anderson et al		
	3,946,381	03/76	Johnson et al	365	116
	4,345,272	08/82	Shirota	348	617
	4,393,380	07/83	Hosokawa et al	345	90
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	4,532,650	07/85	Wihl et al	382	144
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	4,745,460	03/88	Fukinuki	358	12
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	4,839,635	07/89	Harris et al	340	752
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Wolfgang K. Giloi, Interactive Computer Graphics Data Structures, Algorithms, Languages.					
Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1978, pp. 7 and 8.					

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS
	3,899,767	08/12/75	Jones	367	11
	4,070,710	01/78	Sukonick et al	364	900
	4,283,766	08/11/81	Snyder et al	382	293
	4,329,708	05/82	Yamamoto et al.		
	4,745,483	05/88	Inbar	348	513(X)
	4,804,953	02/89	Castleberry	345	93
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<p>The New IEEE Standard Directory of Electronic Terms 617 (5th ed. 1993)</p> <p>Fu et al., Information Processing of Remotely Sensed Agricultural Data, Proc. IEEE, Vol. 57, No. 4, April 1969, pp. 639-653</p> <p>Anuta, Digital Registration of Multispectral Video Imagery, SPIE Journal, Vol. 7, No. 6, Sept. 1969, pp. 168-175</p> <p>Anuta, Spatial Registration of Multispectral and Multitemporal Digital Imagery Using Fast Fourier Transform Techniques, IEEE Trans. Geo. Elec., Vol. GE-8, No. 4, Oct. 1970, pp. 353-368</p> <p>Nagy, Digital Image-Processing Activities in Remote Sensing for Earth Resources, Proc. IEEE, Vol. 60, Oct. 1972, pp. 1177-1200, reprinted in Machine Recognition of Patterns (Ashok K. Agrawala ed., IEEE Press 1976), pp. 381-404</p> <p>Newman et al, "Principles of Interactive Computer Graphics" (1973) pp. 26, 41-43, 59-168, 235, 541, 552</p> <p>Newman et al, "Principles of Interactive Computer Graphics" second edition (1979) pp. 229-245, 411-478</p> <p>N. Ahmed, T. Natarajan, and K. R. Rao, Discrete Cosine Transform, IEEE Transactions on Computers, Jan. 1974, pp. 90-93</p>					

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	3,569,940	03/71	McFadden et al		
	3,630,079	12/71	Hughes et al	73	178
	3,653,001	03/72	Ninke	345	501
	3,747,087	07/73	Harrison, III et al	340	324
	3,781,795	12/25/73	Zegers	340	146.1
	3,830,965	08/74	Beaudette	178	6
	3,914,761	10/75	Murase et al	340	366
	4,062,626	12/77	Kawakami et al		
	4,124,871	11/78	Morrin, II	358	287
	4,162,541	07/79	Hartke	365	189.8
	4,215,366	07/80	Davidson	358	124
	4,245,244	01/13/81	Lijewski et al	345	161
	4,293,920	10/81	Merola	364	725
	4,298,950	11/81	Smith, Jr.	364	726
	4,323,880	04/82	Lucas	340	146.3AC
	4,359,733	11/16/82	O'Neill	343	6.5
	4,387,370	06/83	Katagi	345	12
	4,394,060	07/83	Verber et al	385	7
	4,420,819	12/83	Price, et al	710	52
	4,488,174	12/84	Mitchell et al	348	415
	4,517,604	05/85	Lasher et al	358	261.1
	4,553,206	11/85	Smutek, et al	707	101
	4,638,309	01/87	Ott		
	4,799,267	01/89	Kamejima et al	382	1
	4,888,599	12/89	Harwood et al	345	89
	4,941,038	07/90	Walowit		
	4,951,139	05/86	Hamilton	271	9.01
	4,965,672	10/90	Duke et al		

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C.J. Hughes et al, "LSI in telephone exchange peripheral units," 6/3/69, pp. 33-34

Add. "Central processor made on single MOS chip" (Electronic Design 22), 10/25/70, p.30

Flynn, "CRT terminals talking to computers" (Electronic Products Magazine), 6/70, pp. 22-29

Add. "MOS: the thrust is economy, complexity and volume" (Electronic Design), 6/10/71, p. 34

Add. "'CPU on a chip' goes public" (EDN), 5/71, p. 17

Doctor et al, "Display Techniques for Octree-Encoded Object" (July 1981), pp. 29-36

Phong, "Illumination for Computer Generated Pictures" (June 1975), pp. 311-317

Newman et al, "Principles of Interactive Computer Graphics" (1973), pp. xvii-xxviii, 36-45, 64, 72-79, 97-100, 171-184, 199, 204, 402-410, 417, 419, 420, 575-582

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9	3,613,082	10/71	Bouchard	382	159
	4,051,457	09/27/77	Inose et al	340	146.3MA
	4,196,448	04/01/80	Whitehouse et al	358	153
	4,254,400	03/81	Yoda et al	382	194
	4,296,434	10/81	Drewery et al		
	4,355,895	10/82	Cairns et al	356	141
	4,395,729	07/93	Lewis, Jr.	348	508
	4,403,314	09/83	Tournois	367	100
	4,598,369	07/86	Wang et al		
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9	4,660,180	4/1987	Tanimura et al	365	222
	5,079,694	1/1992	Nakagawa et al	711	165

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